RESEARCH NOTES

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指数等中 College of Chemical Engineering and Materials Science, Zhejiang University of Technology, State Key Laboratory Breeding Base of Green-chemistry Synthesis Technology, Hangshou 310032, China 後毎日用 海珠紅支色日用 接受日用 神珠紅支色日用 接受日用 接受日 and Mo bimetaillic nitrides supported on Mg(Ai)O, MgO and y-A2O3 were prepared in temperature-programmed reactions with NH3. The surface morphology, chemical composition and catalytic activity for NH3 decomposition on the supported Co and Mo bimetaillic nitrides were studied by X-ray diffractionated (ABO). NH3 temperature-programmed description and mass spectrometer (PD-MS). H2 temperature-programmed surface reaction (H2-IPSR) and activity test. The phases of CO3Mo3N and MoN could be formed on Mg(Ai) O, MgO and A2O3 during the intridiation, and they might be more uniformly depleted and MgO than on y-A2O3. Transition metallial in intrides are generally considered as spectral catalysts for hydrogen.

The D, but the supported Co and Mo bimetallic nitrides are not easily reduced at H2 almosphere. Co3Mo3NN(and MoN could be formed on Mg(Ai) O catalyst exhibits the highest activity, while Co3Mo3N/AI2O3 exhibits the lowest activity for NH3 decomposition. Furthermore, the catalytic activity of Co and Mo bimetallic nitrides is not only much higher than that of supported single metallic nitride, but also highly dependent upon the surface area of support.

关键词 $\underline{0}$ <u>负载型钴铜双金属氯化物</u> <u>刻</u> \underline{O} <u>解反应</u> <u>催化剂</u> <u>表面形态</u> 分类号 **DOI:**

Supported Coball Molybdenum Bimetallic Nitrida for Ammonia Decomposition
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Key words Co and Mo bimetallic nitrides; surface morphology; support; ammonia decomposition

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